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### DETAILED ACTION

#### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Michael Ananian on July 17, 2003.

The application has been amended as follows:

(A) Claim 11:

(1) line 9, delete "to the I and Q input ports of a transmitter";

(2) line 10, change "baseband signal streams" to - I and Q phase baseband signals- -;

(3) line 11, delete "for BRA, MFS and CS systems";

(4) insert - means for modulating the cross-correlated signal;

means for transmitting the modulated signal; - between line 14 and

line 15;

(5) line 16, change "cross-correlated signal" to - modulated signal- -;

(6) line 18, insert - coupled to the receiver port- - after set; and

(7) line 18, change "in which a" to - for a BRA and MFS demodulation, wherein

the -.

(B) Claim 12:

- (1) line 5, change "the" to - -a- -;
- (2) line 10, delete "and";
- (3) line 14, change "signal" to - -signals- -;
- (4) line 15, change "of" to - -for - - and insert - -of- - after "correlating";
- (5) line 16, delete "output" and "means";
- (6) line 21, change ", such that" to - -comprised of - -;
- (7) line 22, change " provides" to - -provide- -;
- (8) line 25, insert - -processed- - before "BRA";
- (9) line 26, delete "demodulated";
- (10) line 27, change "BRA rate processor selection" to - - selecting a rate of said

BRA processor- -;

- (11) line 30, change "the" to - -a- -;
- (12) line 32, change "one or more received cross-correlated" to - - said amplified  
modulated- -;

- (13) line 35, insert - -a- - before "BRA"; and
- (14) line 36, change "in which demodulator filters set" to - -, wherein the  
demodulator filtering means- - and delete "the".

(C) Claim 13:

- (1) line 10, change "such that said I and Q channel data streams" to - -which- -;
- (2) line 12, change "signals" to - -data streams- -;
- (3) line 13, change "the" to - -a- -;

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(4) line 21, insert - -modulated- - before "signal";

(5) line 23, change "a received cross-correlated" to - -the received amplified modulated- -; and

(6) lines 26-27, change "in which" to - for a BRA and MFS demodulation,

wherein - and change "the BRA" in line 27 to - -a BRA- -.

***Allowable Subject Matter***

2. Claims 11-13 are allowed.

3. The following is an examiner's statement of reasons for allowance: the prior art fails to teach and suggest a structure for trellis coding and decoding, comprising means for baseband signal processing for receiving the baseband signal and providing for BRA, MFS and CS systems changeable amounts of cross-correlation and means for selectively reducing the cross-correlating factor down to zero between TCS response processors with TCS and LR processors.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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**Conclusion**

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shuwang Liu whose telephone number is (703) 308-9556.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin, can be reached at (703) 305-4714.

**Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks

Washington, D.C. 20231

**or faxed to:**

**(703) 872-9314 (for Technology Center 2600 only)**

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.



Shuwang Liu  
Primary Examiner  
Art Unit 2634

July 17, 2003

